

Marine Mollusca of the New Hebrides

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THIS PAPER presents a check list of the marine mollusks known from the New Hebrides Islands. In recent years there has been a revival of interest in Indo-Pacific marine shells and active research on their systematics and distribution is being carried on at several centers. Monographic treatments of families and genera are urgently needed, since the taxonomy of most groups is in chaotic condition. Until such monographic treatments become available, critical faunistic studies will be impossible.

Distribution records from faunal reports can be useful to monographers if the authority for identification is cited (see Solem, 1954, for use of such data). In a previous paper on the Solomon Islands fauna (Solem, 1953), no authorities were cited for the identifications. This omission seriously impaired the usefulness of that study and in the present paper is corrected in part. Both studies were carried out at the Chicago Natural History Museum while I was a graduate student at the University of Michigan. Since the summer of 1952 (when my paper of 1953 was submitted for publication) many nomenclatural changes have been recorded in the papers of Kuroda and Habe (1952), Kira (1955), and Demond (1957). These changes are incorporated below, although most of the identifications were completed in 1955. Preparation of the manuscript for publication has been delayed by a detailed study on the New Hebridean land mollusks (Solem, 1959).

MATERIAL STUDIED

The collection initiating this project was made by Robert E. Kuntz on the southeast

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coast of Espiritu Santo Island from October 1943 to January 1945. His 331 lots of marine shells represented 160 species and morphotypes. All NH and ML numbers refer to Kuntz collecting stations. Information about each site is found in Solem (1959: pl. 2, and Appendix I). About one half of the forms had not been previously reported from the New Hebrides. The Kuntz material is deposited in the University of Michigan Museum of Zoology with a set of duplicates in the Chicago Natural History Museum.

Some miscellaneous lots of New Hebridean marine shells were discovered in various museums and the records are incorporated below. Material from Tagoa Island off Espiritu Santo (Museum of Comparative Zoology), Futuna Island (American Museum of Natural History), Rano Island off northeast Malekula (Chicago Natural History Museum), and Cape Lisburn, Espiritu Santo (gift of Harold Harry to Chicago Natural History Museum) was examined.

PREVIOUS STUDIES

Surprisingly little has been published on the New Hebridean marine fauna. Both Bougainville and Cook visited the islands in the late 1700's, but no New Hebridean mollusks are known to have been brought back from their voyages (von Martens, 1872*a*, 1872*b*). On August 24, 1829, George Bennett collected a living *Nautilus pompilius* at Dillon's Bay, Erromanga (Owen, 1832), and about the same time the "Astrolabe" scientists found 62 species of marine shells at Ticopia and Vanikoro in the neighboring Santa Cruz Islands (Quoy and Gaimard, 1832-1835). Dohrn (1864), H. Adams (1872), Baird (in Brencley, 1873), Brazier (1894, 1896), Dautzenberg (1900), Fischer (1902), and Willey (1902) published brief notes or descriptions.

Mabille (1895) studied a small collection, Hedley (1899) included New Hebridean distribution records in his Funafuti report, C. R. Boettger (1916) listed a few marine shells, and Ingram and Kenyon (1946) recorded cowries from Espiritu Santo.

The only comprehensive studies are those of Fischer and Fischer-Piette (1938, 1939) on recent marine shells and of Abrard (1946) on fossils. Two short lists appearing in the *Minutes of the Conchological Club of Southern California*, no. 23 (1943) are ignored, since the identifications of one collection were found to be unreliable.

SYSTEMATIC LIST

The classification is slightly modified from Thiele (1929-1935). Specific and generic nomenclature follows recent Japanese usage, with the often more familiar synonyms usually being cited. Trinomials, when used, represent marked morphologic variants whose taxonomic status is uncertain. They do not represent "subspecies."

Identifications have been made from the Chicago Natural History Museum collection and have been checked against original illustrations whenever possible. For convenience, however, I have cited a reference figure from an easily available source, such as Hirase and Taki (1951) or Kira (1955), for many of the common species. Other reference figures are from the standard iconographies of Kiener, Reeve, Sowerby, Martini and Chemnitz (2nd edition), and the *Manual of Conchology*. A similar procedure was adopted by Demond (1957).

The following symbols indicate the sources of the species listed:

AMNH	American Museum of Natural History
Boettger	C. R. Boettger (1916)
Brazier	Brazier (1894, 1896)
CNHM	Chicago Natural History Museum
F	Fischer and Fischer-Piette (1938, 1939)

H	Donated by Harold Harry
Hedley	Hedley (1899)
IK	Ingram and Kenyon (1946)
Mabille	Mabille (1895)
MCZ	Museum of Comparative Zoology
ML	Collecting station on Espiritu Santo
NH	Same as ML
S	Schilder and Schilder (1952)

Class PELECYPODA Family ARCIDAE

- Anadara pilula* Reeve F
Anadara rhombea Born F
Anadara scapha Meuschen Kira (1955: pl. 43, fig. 12); NH 8
Arca imbricata imbricata Gmelin F
Arca imbricata avellana Lamarck (= *maculata* Sowerby) Reeve, *Arca*, pl. XI, fig. 71; NH 14, New Hebrides (Hedley)
Barbatia bicolorata Dillwyn (= *fusca* Bruguière, non Solander) F
Barbatia lima Reeve (= *decussata* of authors, non Sowerby) Kira (1955: pl. 42, fig. 12); Tangoa, Espiritu Santo
Barbatia ovata Gmelin (= *nivea* Chemnitz) Reeve, *Arca*, pl. XIV, fig. 90; NH 4, NH 5, NH 9, New Hebrides (F)

Family GLYCYMERIDAE

- Glycymeris (Veletuceta) reevei* Mayer F

Family NUCULIDAE

- Leda verconis* Tate Roy. Soc. So. Austral., Trans. 1891: 261, pl. 11, fig. 4 F

Family MYTILIDAE

- Brachidontes (Septifer) bilocularis* Linné Hirase and Taki (1951: pl. 18, fig. 2); NH 7, F
Brachidontes (Brachidontes) crebristriatus Conrad Dall, Bartsch, and Rehder (1938: pl. 8, figs. 5-8); ML 28
Modiolus auriculatus Krauss (= *moduloides* Röding?) F

Family VULSELLIDAE

- Isognomon isognomum* Linné F
Isognomon nucleus Lamarck F
Isognomon quadrangularis Reeve Immer
 (Boettger)
Isognomon sulcatum Lamarck Reeve, *Perna*,
 pl. 4, fig. 6; NH 9, NH 12, NH 14, F
Isognomon vitreum Reeve F

Family PINNIDAE

- Pinna rumphii* Hanley F

Family PECTENIDAE

- Aequipecten pallium* Linné F, Erromanga
 (Hedley)
Chlamys squamatus Gmelin F
Comptopallium radula Linné F
Cryptopecten inaequivalvis Sowerby F
Plicatula plicatus Linné Reeve, *Plicatula*, pl.
 II, fig. 5; NH 13, F
Spondylus ducalis Röding F
Spondylus linguafelis Sowerby F
Spondylus nicobaricus zonalis Lamarck F
Spondylus variegatus "Chemnitz" F

Family LIMIDAE

- Lima alata* Hedley F
Lima annulata Lamarck F

Family OSTREIDAE

- Ostraea cristagalli* Linné Reeve, *Ostraea*, pl.
 XXVIII, fig. 72; Havannah Harbour,
 Vate (Hedley)
Ostraea forskali Gmelin F
Ostraea paulucciae Crosse (= *palmipes* Sowerby)
 F
Ostraea plicatula Gmelin F

Family CORBICULIDAE

- Polymesoda (Geloina) cyprinoides* Quoy and
 Gaimard Martini and Chemnitz, IX(3):
 pl. 20, figs. 3, 4; ML 75
Polymesoda (Geloina) ingens Dautzenberg (= *cyprinoides*
 Quoy & Gaimard?) Dautzenberg (1900: pl. 5);
 Espiritu Santo (Dautzenberg, 1900)

Family CARDITIDAE

- Beguina (Mytilicardita) aviculina* Lamarck
 Reeve, *Cardita*, pl. IV, fig. 18; NH 9
Beguina (Mytilicardita) variegata Bruguière F
Venericardia ovalis Reeve F

Family LUCINIDAE

- Codakia (Codakia) tigerina* Linné F
Codakia (Jagonia) divergens Philippi New
 Hebrides (Hedley), F
Fimbria fimbriata Linné F
Loripes assimilis Angas F
Lucina (Lucina) edentula Linné F

Family CHAMIDAE

- Chama asperella* Lamarck F
Chama imbricata Broderip Zool. Soc. London,
 Trans. 1835: pl. 39, fig. 1; Aneiteum
 (Hedley)

Family CARDIIDAE

- Fragum fragum* Linné F
Fragum nivale Reeve F
Papyridea (Fulvia) australis Sowerby F
Trachycardium flavum dupuchense Reeve F

Family TRIDACNIDAE

- Hippopus hippopus* Linné Kira (1955: pl. 55,
 fig. 15); Tangoa, Espiritu Santo (MCZ)

Family VENERIDAE

- Circe (Circe) plana* Odhner K. vetensk. Akad.
 Handl., 52(16): pl. 1, figs. 23–25; NH 5
Dosinia aff. *angulosa* Philippi F
Gafrarium dispar mixtum Lamarck F
Gafrarium pectinatum Lamarck F
Gafrarium tumidum Röding (= *gibbium* Lamarck)
 Hirase and Taki (1951: pl. 33, fig. 3);
 NH 5, NH 9
Lioconcha castrensis Linné Kira (1955: pl. 57,
 fig. 3); ML 28, Aneiteum (Hedley), F
Lioconcha ornata Dillwyn (= *picta* Lamarck) F
Pitar (Lepidocardia) australica Reeve F
Pitar (Pitarina) citrina Lamarck F
Pitar (Paradione) erycina Linné F
Pitar (Lepidocardia) florida Lamarck F

- Pitar (Paradione) philippinarum* Hanley F
Tapes litteratus Linné F
Venerupis (Amygdala) variegata Sowerby Hirase and Taki (1951: pl. 40, fig. 6); NH 7, F
Venus (Periglypta) lacerata Hanley F
Venus (Leucoma) marica Linné F
Venus (Periglypta) puerpera Linné Hirase and Taki (1951: pl. 36, fig. 2); NH 9
Venus (Periglypta) reticulata Linné F

Family MESODESMATIDAE

- Mesodesma (Atactodea) glabratum* Gmelin F
Mesodesma (Davila) planum Hanley F
Mesodesma (Atactodea) striatum Lamarck Reeve, *Mesodesma*, pl. 2, fig. 10; NH 5, NH 9
Mesodesma (Atactodea) trigona Deshayes Reeve, *Mesodesma*, pl. III, fig. 19; Tangoa, Espiritu Santo (MCZ)

Family MACTRIDAE

- Cardilia semisulcata* Lamarck F
Mactra (Mactra) cuneata Gmelin F
Mactra (Mactra) kanakina Souverbie F
Mactra (Mactra) maculata Gmelin F

Family DONACIDAE

- Donax crenatus* Linné F
Donax tinctus Gould F

Family GARIDAE

- Asaphis (Asaphis) deflorata* Linné Vate (Hedley), Immer (Boettger), F
Sanguinolaria (Soletellina) elongata Lamarck (= *violacea* Lamarck) F

Family TELLINIDAE

- Angulus (Tellinides) apalinus* Gmelin F
Angulus (Exotica) clathrata Deshayes (= *rhomboides* Quoy & Gaimard) F
Angulus (Angulus) rubellus Deshayes F
Arcopagia (Arcopaginula) inflata Gmelin F
Arcopagia (Pinguitellina) robusta Hanley F
Arcopagia (Arcopagia) subelliptica Sowerby F
Cyclotellina (Cyclotellina) remies Linné F
Cyclotellina (Scutarcopagia) scobinata Linné

- Hirase and Taki (1951: pl. 44, fig. 1); NH 9, F

- Quadrans (Quidnipagus) palatam* Iredale (= *rugosa* Born) F
Strigilla (Strigilla) splendida Anton F
Tellina (Tellina) crucigera Lamarck F
Tellina (Pharaonella) perna Spengler F
Tellina (Tellinella) petalina Deshayes F
Tellina (Tellina) virgata Linné (= *jubar* Hanley) F

Family PHOLADIDAE

- Jouannetia (Triumphalia) globulosa* Quoy and Gaimard F

Family TEREDINIDAE

- Bankia bipalmulata* Lamarck Turtle Bay, Espiritu Santo (MCZ)

Class CEPHALOPODA

Family NAUTILIDAE

- Nautilus pompilius* Linné Tangoa, Espiritu Santo (MCZ), Dillon's Bay, Erromanga and Aneiteum (Bennett, 1860)

Class GASTROPODA

Subclass OPISTHOBRANCHIA

Family ACTAeonIDAE

- Pupa sulcata* Gmelin Man. Conch. (1)15: pl. 20A, figs. 39, 46-48; Aneiteum (Hedley)

Family BULLIDAE

- Bulla (Bulla) adamsi* Menke Man. Conch., (1)15: pl. 35, figs. 15, 16, 19, 20; Malekula (CNHM)

Family ATYIDAE

- Atys (Atys) naucum* Linné F
Haminoea crocata Pease F
Smaragdinella (Smaragdinella) viridis Rang F

Family OXYNOIDAE

- Oxynoe bargravesi* H. Adams H. Adams (1872: pl. 3, fig. 30); New Hebrides (type locality)

Subclass PULMONATA

Family SIPHONARIIDAE

Siphonaria laciniosa Linné Hirase and Taki (1951: pl. 121, fig. 11); NH 5

Subclass PROSOBRANCHIA

Family HALIOTIDAE

Haliotis (Sanhaliotis) dohrniana Dunker Man. Conch., (1)12: pl. 7, figs. 39–41; New Hebrides (type locality), Tangoa, Espiritu Santo (MCZ)

Haliotis (Haliotis) pustulata Reeve (= *dohrniana* Dunker?) Vate (F)

Haliotis (Haliotis) stomatiaeformis Reeve Tanna (F)

Haliotis (Sanhaliotis) varia Linné Man. Conch., (1)12: pl. 23, figs. 53–55; NH 13

Family FISSURELLIDAE

Clypidina lamberti Souverbie Tanna (F)

Diodora lineata Sowerby Man. Conch., (1)13: pl. 63, figs. 29, 30; NH 1, New Hebrides (CNHM)

Emarginula (Emarginula) scabricostata Adams Nguna (F)

Family PATELLIDAE

Patella (Scutellastra) stellaeformis Reeve Kira (1955: pl. 5, fig. 6); Cape Lisburn, Espiritu Santo (H), F

Cellana amusitata Reeve F

Cellana nigrolineata Reeve Immer (Boettger)

Cellana testudinaria Linné Vanua-Lava (F), Tanna (F)

Family TROCHIDAE

Chrysostoma paradoxum Born Hirase and Taki (1951: pl. 67, fig. 1); NH 12, NH 13, NH 14, Immer (Boettger)

Diloma (Melagraphia) constellata Souverbie Anelgauhaut Harbor, Aneiteum (Brazier)

Euchelus (Euchelus) atratus Gmelin Man. Conch., (1)11: pl. 38, fig. 22; NH 4, NH 5, NH 9, NH 11, NH 12, NH 13, Vate (F)

Gena (Plocamotis) lutea Adams F

Monilea (Talopena) lifuana Fischer Man. Conch., (1)11: pl. 41, figs. 6, 7; Aneiteum (Hedley)

Monodonta (Monodonta) canalifera Lamarck Immer (Boettger)

Stomatella (Stomatella) sulcifera Lamarck Malekula (F)

Stomatia (Stomatia) angulata Adams F

Stomatia (Stomatia) phymotis phymotis Helbing F

Stomatia (Stomatia) phymotis australis Adams Man. Conch., (1)12: pl. 54, figs. 1–3; NH 4

Tectus (Cardinalia) fenestratus Gmelin Kiener, *Trochus*, pl. 38, fig. 3; NH 4, NH 11, NH 13, NH 14, Espiritu Santo (F)

Tectus (Rochia) niloticus Linné Hirase and Taki (1951: pl. 65, fig. 6); NH 9, NH 12, NH 13, NH 14

Tectus (Tectus) pyramis Born (= *obeliscus* Gmelin) Hirase and Taki (1951: pl. 65, fig. 8); NH 8, Cape Lisburn, Espiritu Santo (H)

Tegula (Chlorostoma) pfefferi Dohrn (= *dohrni* Pilsbry) Man. Conch., (1)11: 189, pl. 61, figs. 28–29; New Hebrides (type locality), Anelgauhaut Harbor, Aneiteum (Brazier)

Trochus (Trochus) incrassatus incrassatus Lamarck F

Trochus (Trochus) incrassatus creniferus Kiener Kiener, *Trochus*, pl. 34, fig. 3; Cape Lisburn, Espiritu Santo (H)

Trochus (Trochus) maculatus maculatus Linné Hanley, *Ipsa Conchologia Linnaei*, pl. 3, fig. 7; NH 12, NH 13, Vate (F)

Trochus (Trochus) maculatus granosus Lamarck Kiener, *Trochus*, pl. 34, fig. 1; ML 6, NH 8, NH 9, NH 14

Trochus (Trochus) maculatus verrucosus Gmelin Kiener, *Trochus*, pl. 109, fig. 4; NH 5

Trochus (Infundibulum) tubiferus Kiener F

Family ANGARIIDAE

Angaria delphinus delphinus Linné Hirase and Taki (1951: pl. 71, fig. 8); NH 7, NH

8, NH 9, Vate (F)

Angaria delphinus atrata Reeve Espiritu Santo (F)

Family TURBINIDAE

Astraea (Calcar) stellaris Gmelin Man. Conch., (1)10: pl. 55, figs. 66-68; NH 9, Vate (F)

Liotia (Liotia) peronii Kiener F

Liotia (Arene) crenata Kiener Man. Conch., (1)10: pl. 36, figs. 12, 13; Aneiteum (Hedley)

Turbo (Marmarostoma) argyrostomus argyrostomus Linné Hirase and Taki (1951: pl. 73, fig. 4); NH 9

Turbo (Marmarostoma) argyrostomus margaritaceus Linné Man. Conch., (1)10: pl. 45, fig. 100; ML 6, NH 8, NH 9

Turbo (Marmarostoma) chrysostomus Linné Man. Conch., (1)10: pl. 40, fig. 19; NH 8, NH 12, NH 13, NH 14

Turbo (Marmarostoma) crassus Wood Man. Conch., (1)10: pl. 47, fig. 20; Tangoa, Espiritu Santo (MCZ), Vate (F)

Turbo (Olearia) marmoratus Linné Kira (1955: pl. 9, fig. 7); Tangoa, Espiritu Santo (MCZ)

Turbo (Turbo) petholatus Linné Hirase and Taki (1951: pl. 73, fig. 1); NH 8

Turbo (Lunella) porphyrites Gmelin Man. Conch., (1)10: pl. 50, fig. 58; NH 8, NH 9

Turbo (Marmarostoma) setosus setosus Gmelin Espiritu Santo (F)

Turbo (Marmarostoma) setosus patulus Philippi Man. Conch., (1)10: pl. 63, fig. 33; NH 8, NH 11

Family PHASIANELLIDAE

Phasianella (Orthomesium) variegata Lamarck Tanna (F)

Phasianella (Orthomesium) wisemanni Baird Brenchley (1873: pl. 38, fig. 34); Aneiteum (type locality), New Hebrides (CNHM)

Family NERITIDAE

The genus *Neritina* is not considered at

this time, since, like the Thiaridae, it primarily inhabits fresh or brackish waters.

Nerita (Theliostyla) albicilla Linné Hirase and Taki (1951: pl. 75, fig. 8); NH 1, NH 4, NH 9, NH 13, Erromanga (Hedley), Tangoa, Espiritu Santo (MCZ)

Nerita (Ritena) grossa Linné Man. Conch., (1)10: pl. 5, fig. 85; NH 7, Vate (F)

Nerita (Amphinerita) maxima Gmelin Martini and Chemnitz, II (11): pl. 6, figs. 1-5; Aneiteum (Hedley)

Nerita (Theliostyla) patula Recluz Man. Conch., (1)10: pl. 3, figs. 52, 55; NH 8

Nerita (Ritena) plicata Linné Martini and Chemnitz, II (11): pl. 10, figs. 7, 10; NH 5, NH 8, NH 9, NH 11, NH 12, NH 13, Erromanga (Hedley), Immer (Boettger), New Hebrides (F)

Nerita (Amphinerita) polita Linné Hirase and Taki (1951: pl. 75, fig. 13); ML 42, NH 1, NH 5, NH 7, NH 8, NH 9, NH 13, NH 14, Vate (F), Espiritu Santo (F), Erromanga (Hedley), Tangoa, Espiritu Santo (MCZ), New Hebrides (Mabille)

Nerita (Nerita) signata Lamarck (= *reticulata* Karsten) Man. Conch., (1)10: pl. 3, fig. 49; ML 28, NH 7, NH 9, NH 12, NH 13

Nerita (Ritena) undata Linné Man. Conch., (1)10: pl. 5, fig. 87; NH 1, NH 5, NH 7, NH 8, NH 9, NH 13, NH 14, Immer (Boettger)

Family LITTORINIDAE

Littorina (Melaraphe) mauritiana Lamarck Reeve, *Littorina*, pl. XVII, fig. 100; New Hebrides (Mabille)

Littorina (Melaraphe) coccinea Gmelin (= *obesa* Sowerby) Man. Conch., (1)9: pl. 43, fig. 53; Vate (Hedley)

Littorinopsis (Littorinopsis) scabra scabra Linné Hirase and Taki (1951: pl. 79, fig. 13); ML 6, ML 28, NH 11, 4KML, Surenda, Espiritu Santo (F), Hog Harbor, Espiritu Santo (MCZ), Immer (Boettger), Lagune d'Erakor, Vate (F)

Littorinopsis (Littorinopsis) scabra filosa Sowerby Man. Conch., (1)9: pl. 43, figs. 31, 31a; ML 6

Littorinopsis (Littorinopsis) scabra intermedia Philippi Reeve, *Littorina*, pl. VI, fig. 28a; New Hebrides (Mabille)

Littorinopsis (Littorinopsis) undulatus "Martyn" Gray Hirase and Taki (1951: pl. 79, fig. 11); NH 7, NH 8, NH 12

Echininus cumingi Philippi H. and A. Adams, Genera of recent shells, 3: pl. 33, fig. 3; NH 8, Vate (F), New Hebrides (Mabille)

Family RISSOIDAE

Rissoina ambigua Gould Vate (F), Tanna (F)

Rissoina exasperata Souverbie Vate (F)

Rissoina plicata Adams Vate (F)

Family SOLARIIDAE

Philippia hybridum Linné Sarakata, Espiritu Santo (F)

Philippia radiata Röding (= *cingulum* Kiener) Kiener, *Solarium*, pl. 3, fig. 6; NH 12, NH 13

Family VERMETIDAE

Vermetus dentifer Lamarck F

Family PLANAXIDAE

Planaxis (Quoyia) decollatus Quoy and Gaimard New Hebrides (Mabille)

Planaxis (Planaxis) lineatus DaCosta Hirase and Taki (1951: pl. 79, fig. 17); New Hebrides (Hedley)

Planaxis (Planaxis) nigra Quoy and Gaimard Reeve, *Planaxis*, pl. II, fig. 13; New Hebrides (Mabille)

Planaxis (Planaxis) sulcatus Born Hirase and Taki (1951: pl. 79, fig. 16); ML 6, Immer (Boettger)

Family POTAMIDIDAE

Terebralia palustris Bruguière Immer (Boettger)

Family CERITHIIDAE

The traditional generic usage is followed

here, rather than the newer concepts of Iredale and of most Japanese workers.

Aluco aluco Linné Hirase and Taki (1951: pl. 83, fig. 7); NH 1, NH 4; adults measure 49–66.4 mm. in length

Cerithium columna Sowerby Hirase and Taki (1951: pl. 83, fig. 9); NH 4, NH 8, NH 9, NH 13, NH 14, Vate (F)

Cerithium echinatum Lamarck Kiener, *Cerithium*, pl. 3, fig. 1; NH 9

Cerithium nodulosum Bruguière (= *Contumax decollatus* Hedley) Hirase and Taki (1951: pl. 83, fig. 8); NH 14

Cerithium consisum Hombron and Jacquinot (= *morus* Lamarck) Man. Conch., (1)9: pl. 24, figs. 29–33; NH 4, NH 5, NH 8, NH 9, NH 13

Cerithium consisum sejunctum Iredale (= *variegatum* Quoy and Gaimard) F

Cerithium consisum vittatum Sowerby F

Ischnocerithium rostratum Sowerby Man. Conch., (1)9: pl. 23, figs. 90, 91; Vate (F), New Hebrides (Hedley)

Liocerithium piperitum Sowerby Man. Conch., (1)9: pl. 27, fig. 31; NH 13, Vate (F)

Proclava zebra Kiener Man. Conch., (1)9: pl. 25, figs. 71, 72; New Hebrides (Hedley)

Rhinoclavis asperus Linné Hirase and Taki (1951: pl. 83, fig. 1); NH 5, NH 8

Rhinoclavis fasciatus Bruguière Man. Conch., (1)9: pl. 29, figs. 65–67; Segond Channel, Espiritu Santo (MCZ), Espiritu Santo (F)

Rhinoclavis pharos Hinds Man. Conch., (1)9: pl. 29, fig. 68; New Hebrides (Hedley)

Rhinoclavis sinense Gmelin (= *obeliscus* Bruguière) Hirase and Taki (1951: pl. 83, fig. 4); NH 4, NH 9, NH 13, F

Rhinoclavis vertagus Linné Espiritu Santo (F), Vate (F)

Semivertagus nesioticus Pilsbry and Vanatta (= *lacteus* Kiener and *collacteum* Iredale) Kiener, *Cerithium*, pl. 7, fig. 3; NH 12, NH 13

Family EPITONIIDAE

Epitonium (Limiscala) lyra Sowerby Sarakata, Espiritu Santo (F)

Cirsotrema (Coronoscala) perplexa Pease Sarakata, Espiritu Santo (F)

Family EULIMIDAE

Eulima bargravesi Brazier (= *porcellana* H. Adams, *preocc.*) Adams (1872: pl. 3, fig. 29); New Hebrides (type locality), Aneiteum (Brazier)

Family VANIKORIDAE

Vanikoro cancellata Lamarck Surenda, Espiritu Santo (F)

Family AMALTHEIDAE

Amalthea (Amalthea) australis Quoy and Gaimard (= *conica* Schumacher?) Man. Conch., (1)8: pl. 41, figs. 12, 13; NH 12, NH 13, NH 14, Tagoa, Espiritu Santo (MCZ)

Family CAPULIDAE

Capulus (Krebsia) intortus Lamarck Man. Conch., (1)8: pl. 39, figs. 75, 76; Aneiteum (Hedley)

Capulus (Capulus) violaceus Angas Man. Conch., (1)8: pl. 39, fig. 81; New Hebrides (Hedley)

Family STROMBIDAE

Canarium (Euprotomus) aurisdianae Linné (= *guttatus* Martini) Kira (1955: pl. 16, fig. 2); Cape Lisburn, Espiritu Santo (H), Espiritu Santo (F)

Canarium (Labiostrombus) canarium Linné Espiritu Santo (F)

Canarium (Canarium) dentatum Linné Kira (1955: pl. 15, fig. 3—as *tridentatum* Gmelin); NH 14

Canarium (Oostrombus) gibberulum Linné Man. Conch., (1)7: pl. 8, fig. 85; NH 1, NH 5, NH 9, NH 12, Vate (F), New Hebrides (Hedley)

Canarium (Canarium) labiatus Röding (= *ustulatus plicatus* Lamarck) Dodge (1946: figs. 3, 7; also 1956: 285); NH 9

Canarium (Euprotomus) latissimus Linné Espiritu Santo (F)

Canarium (Euprotomus) lentiginosus Linné Hirase and Taki (1951: pl. 86, fig. 4); NH 8, Tagoa, Espiritu Santo (MCZ), Espiritu Santo (F)

Canarium (Canarium) mutabilis Swainson (= *floridanum* Lamarck) Dodge (1946: figs. 4, 8); NH 4, NH 5, NH 9, NH 11, NH 12, NH 13, NH 14, Espiritu Santo (F), Cape Lisburn, Espiritu Santo (H), Vate (F), Erromanga (Hedley), Malekula (CNHM)

Canarium (Labiostrombus) variabile Swainson Man. Conch., (1)7: pl. 6, figs. 59, 60; NH 10, Cape Lisburn, Espiritu Santo (H)

Lambis truncata Solander (= *bryonia* Gmelin) Erromanga (Hedley)

Lambis scorpius Linné Hirase and Taki (1951: pl. 88, fig. 1); Cape Lisburn, Espiritu Santo (H)

Terebellum terebellum Linné Hirase and Taki (1951: pl. 89, fig. 1); NH 9, Erromanga (Hedley)

Family NATICIDAE

Natica (Natica) marochiensis Gmelin Man. Conch., (1)8: pl. 5, fig. 75; NH 7, NH 9, NH 12, New Hebrides (Hedley)

Specimens from NH 7 have the typical color pattern; those from NH 9 and NH 12 have two spiral bands of brown on a yellowish background.

Natica (Natica) solida Blainville Man. Conch., (1)8: pl. 20, fig. 98; NH 12

Natica (Natica) traillii Reeve F

Polinices (Polinices) albumen Linné Hirase and Taki (1951: pl. 91, fig. 7); NH 4 (juvenile), Cape Lisburn, Espiritu Santo (H)

Polinices (Polinices) flemingianus Récluz Hirase and Taki (1951: pl. 91, fig. 5); NH 5, NH 9, NH 12

Polinices (Mamilla) mamilla Linné (= *pyriformis* Récluz) Kira (1955c pl. 17, fig. 10); NH 4, NH 7, NH 10, NH 12

Polinices (Mamilla) melanostoma Gmelin Man. Conch., (1)8: pl. 21, fig. 14; NH 7, NH 11, Vate (F)

NH 11 is var. *melanostomoides* Quoy and

Gaimard which F reported as a distinct species from Vate.

Family OVULIDAE
(= AMPHIPERATIDAE)

Calpurnus verrucosus Linné Hirase and Taki (1951: pl. 94, fig. 20); Futuna (AMNH)

Ovula ovum Linné Espiritu Santo (F)

Family ERATOIDAE

Trivirostra oryza Lamarck New Hebrides (Hedley)

Family CYPRAEIDAE

No attempt has been made to utilize the elaborate subspecific categories proposed by the Schilders and many of their split genera are ignored. No reference figures are quoted.

Callistocypraea (*Chelycypraea*) *testudinaria* Linné Aneiteum (Hedley)

Cypraea (*Lyncina*) *carneola* Linné Espiritu Santo (F, IK)

Cypraea (*Lyncina*) *lynx* Linné Segond Channel, Espiritu Santo (MCZ), Cape Lisburn, Espiritu Santo (H), Espiritu Santo (F, IK), Erromanga (Hedley), Malekula (CNHM)

Cypraea (*Cypraea*) *tigris* Linné Espiritu Santo (F), Erromanga (Hedley)

Cypraea (*Lyncina*) *vitellus* Linné Segond Channel, Espiritu Santo (MCZ), Espiritu Santo (IK), Vate (F)

Erosaria (*Ravitriona*) *caputserpentis* Linné ML 6, NH 14, Tangoa, Espiritu Santo (MCZ), Espiritu Santo (IK), Vate (F), Erromanga (Hedley)

Erosaria (*Erosaria*) *erosa* Linné NH 8, Espiritu Santo (F), Erromanga (Hedley)

Erosaria (*Erosaria*) *helvola* Linné Espiritu Santo (IK)

Erronea (*Erronea*) *errones* Linné Espiritu Santo (IK)

Erronea (*Blasicrura*) *hirundo* Linné Espiritu Santo (IK)

Erronea (*Blasicrura*) *neglecta* Sowerby Espiritu Santo (IK)

Luria (*Basilitriona*) *isabella* Linné NH 5, NH 14, Espiritu Santo (F, IK), Vate (F),

Tanna (F), Erromanga (Hedley), Aneiteum (Hedley)

Mauritia (*Arabica*) *arabica* Linné Tangoa, Espiritu Santo (MCZ), Cape Lisburn, Espiritu Santo (H), Espiritu Santo (F), Vate (F), Erromanga (Hedley), Aneiteum (Hedley)

Mauritia (*Arabica*) *depressa* Gray New Hebrides (Schilder and Schilder, 1952)

Mauritia (*Mauritia*) *mauritianae* Linné Tangoa and Segond Channel, Espiritu Santo (MCZ), Espiritu Santo (F, IK), Vate (F), Erromanga (Hedley), Aneiteum (Hedley), Malekula (CNHM)

Monetaria *annulus* Linné NH 4, NH 5, NH 7, NH 8, NH 12, NH 13, NH 14, Tangoa and Segond Channel, Espiritu Santo (MCZ), Espiritu Santo (F, IK), Malekula (CNHM)

Monetaria *moneta* Linné NH 4, NH 13, Segond Channel, Espiritu Santo (MCZ), Erromanga (Hedley), Malekula (CNHM)

Nuclearia *nucleus* Linné Espiritu Santo (IK), Tanna (F), New Hebrides (Hedley)

Palmadusta *asellus* Linné Espiritu Santo (IK)

Palmadusta *felina* Gmelin Espiritu Santo (Schilder and Schilder, 1952)

Palmadusta *fimbriata* Gmelin Espiritu Santo (IK)

Palmadusta *microdon* Gray F

Pustularia *childreni* Gray Espiritu Santo (F, IK)

Pustularia *cicerula* Linné Espiritu Santo (IK), Aneiteum (Hedley)

Pustularia *globulus* Linné Tanna (F)

Pustularia *mariae* Schilder (= *annulata* Gray) Espiritu Santo (IK)

Staphylaea (*Staphylaea*) *limacina* Lamarck Espiritu Santo (IK)

Staphylaea (*Staphylaea*) *staphylaea* Linné Port Sandwich, Vate (Schilder and Schilder, 1952)

Talparia (*Arestorides*) *argus* Linné Espiritu Santo (F), Erromanga (Hedley), Aneiteum (Hedley)

Talparia (*Talparia*) *talpa* Linné Erromanga (Hedley)

Family CASSIDAE

Semicassis (Casmarea) vibex Linné Espiritu Santo (F), Vate (F)

Family CYMATIIDAE

Argobuccinum bituberculatum Lamarck Vate (F)

Charonia tritonis tritonis Linné Espiritu Santo (F)

Distorsio anus Linné Hirase and Taki (1951: pl. 96, fig. 4); NH 8, Espiritu Santo (F), Vate (F)

Gyrineum (Gyrineum) natator Röding (= *tuberculatum* Broderip) Man. Conch., (1)3: pl. 23, fig. 46; NH 9, NH 14

Gyrineum (Gyrinella) pusillum Broderip Man. Conch., (1)3: pl. 24, figs. 56, 57; NH 10

Lampusia chlorostoma Lamarck Man. Conch., (1)3: pl. 7, fig. 47; NH 9, Vate (F)

Lampusia rubecula Linné Espiritu Santo (F), Vate (F)

Ranularia (Gutturium) muricinum Röding (= *nonulus* Link, *tuberosa* Lamarck) Vate (F)

Family BURSIDAE

Bursa bufonia Gmelin Man. Conch., (1)3: pl. 21, figs. 21, 23; NH 5

Bursa granularis Röding (= *affinis* Broderip) Vate (F)

Ranella (Ranella) lampas Linné Espiritu Santo (F)

Family TONNIDAE

Tonna (Tonna) costatum Menke New Hebrides (F)

Tonna (Tonna) perdix perdix Linné Hirase and Taki (1951: pl. 93, fig. 7); NH 14, Espiritu Santo (F), Tangoa, Espiritu Santo (MCZ), Erromanga (Hedley)

Family MURICIDAE

Aspella (Favartia) tetragona Broderip Man. Conch., (1)2: pl. 36, fig. 424; NH 9

Chicoreus (Chicoreus) brunneus Link (= *adustus* Lamarck) Hirase and Taki (1951: pl. 109, fig. 4); NH 8, NH 9, NH 12, NH 14

Cronia (Usilla) margariticola Broderip (= *undata* Chemnitz) Man. Conch., (1)2: pl. 59, fig. 260; NH 9, NH 13

Drupa (Morula) anaxeros Dunker Man. Conch., (1)2: pl. 57, fig. 219; NH 9

Drupa (Morula) granulata Duclos (= *tuberculata* Blainville) Hirase and Taki (1951: pl. 110, fig. 15); NH 13, New Hebrides (F), Immer (Boettger)

Drupa (Drupina) grossularia Röding (= *digitata* Lamarck) Vate (F)

Drupa (Morula) marginatra Blainville Kiener, *Purpura*, pl. 7, fig. 16; NH 8

Drupa (Drupa) morum Röding (= *horrida* Lamarck) Hirase and Taki (1951: pl. 110, fig. 8); NH 11, Cape Lisburn, Espiritu Santo (H), Vate (F)

Drupa (Drupa) ricinus Linné Hirase and Taki (1951: pl. 110, fig. 11); NH 14, Cape Lisburn, Espiritu Santo (H), Vate (F)

Drupa (Drupa) rubuscaesium Röding (= *hystrix* of authors) Hirase and Taki (1951: pl. 110, fig. 9); NH 14

Drupa (Morula) uva uva Röding (= *morus* Lamarck) New Hebrides (Hedley)

Drupa (Morula) uva asperus Lamarck Man. Conch., (1)2: pl. 57, figs. 215, 216; NH 4

Drupella elata Blainville Kiener, *Purpura*, pl. 10, fig. 27; NH 8, NH 9

Maculotrion digitalis Reeve Man. Conch., (1)3: pl. 15, figs. 142, 143; Aneiteum (Hedley)

Mancinella hippocastaneum Linné Demond (1957: 313, fig. 22); NH 5, NH 7, NH 8, NH 13, Vate (F), Immer (Boettger)

Mancinella intermedia Kiener Man. Conch., (1)2: pl. 45, fig. 41; NH 11

Mancinella tuberosa Röding (= *pica* Blainville) Man. Conch., (1)2: pl. 46, fig. 46; NH 1, NH 4

Murex (Acupurpurea) ternispina Lamarck Malekula (F)

Nassa sertum Bruguière (= *francolinus* Bruguière) Vate (F)

Thais (Cymia) armigera Link Hirase and Taki (1951: pl. 110, fig. 2); NH 11

Family MAGILIDAE

- Coralliobia* (*Quoyula*) *madreporarum* Sowerby
Man. Conch., (1)2: pl. 47, figs. 389–391;
Vate (Hedley)
- Coralliophila violacea* Kiener (= *neritoidea* of
authors) Hirase and Taki (1951: pl. 111,
fig. 8); NH 10

Family COLUMBELLIDAE

- Columbella* (*Columbella*) *obtusata* Sowerby Man.
Conch., (1)5: pl. 59, figs. 65, 66; New
Hebrides (Hedley)
- Columbella* (*Nitidella*) *testudinaria* Link (= *pardalina*
Lamarck) Martini and Chemnitz,
III(1d): pl. 6, figs. 8, 9; ML 41, NH 4,
NH 7, NH 14, Nguna (F), Ambrym and
Malekula (Hervier, 1899)
- The typical form was found at ML 41 and
NH 14; a variety (with slightly concave spire,
orange-brown markings, and complete epi-
dermis) which is near *vulpeca* Sowerby was
found at NH 4 and NH 7.
- Columbella* (*Columbella*) *souverbiei* Crosse
J. Conchyliol., 13: pl. 5, fig. 9; Vate (F),
Tanna (F)
- Columbella* (*Columbella*) *versicolor* Sowerby
Hirase and Taki (1951: pl. 107, fig. 1);
NH 12, New Hebrides (Mabille)
- Hervier (1899: 311) described a var. *he-
bridarum* from Ambrym Island.
- Mitrella ligula* Duclos New Hebrides
(Mabille)
- Pyrene discors* Gmelin (?) NH 10
- According to Pace (1902: 416) this is the
most difficult group of Pacific Columbelloidea.
The identification is tentative.

Family BUCCINIDAE

- Cantharus* (*Polliia*) *fumosus* Dillwyn Demond
(1957: 318, fig. 27); NH 1, NH 9, NH 13
- Cantharus* (*Polliia*) *undosus* Linné Demond
(1957: 318, fig. 28); NH 9, NH 11, NH 13
- Engina lauta* Reeve Vate (F)
- Engina lineata* Reeve New Hebrides (Ma-
bille)
- Engina mendicaria* Linné Hirase and Taki
(1951: pl. 105, fig. 8); #5K, ML 41, NH 4,

NH 9, NH 12, NH 13, Vate (F), Immer
(Boettger)

Family NASSARIIDAE

- Alectrion* (*Alectrion*) *acuticosta* Montrouzier
J. Conchyl., 12: pl. 10, fig. 8; NH 7,
NH 9
- Alectrion* (*Zeuxis*) *lurida* Gould U. S. Explor.
Exped. Wilkes, Atlas, fig. 325; NH 7,
NH 9, NH 10
- Alectrion* (*Alectrion*) *monile* Kiener Kiener,
Buccinum, pl. 11, fig. 40; NH 7, NH 9,
NH 12, NH 13, NH 14, Vate (F)
- Alectrion* (*Zeuxis*) *mucronata* Adams Reeve,
Nassa, pl. 2, fig. 8; NH 14
- Alectrion* (*Alectrion*) *ornata* Kiener Kiener,
Buccinum, pl. 21, fig. 83; New Hebrides
(Mabille)
- Alectrion* (*Zeuxis*) *pictus* Dunker Reeve,
Nassa, pl. I, fig. 9; New Hebrides (Ma-
bille)
- Alectrion* (*Zeuxis*) *siquijorensis* H. Adams
Reeve, *Nassa*, pl. VIII, fig. 53; NH 10
- Alectrion* (*Zeuxis*) *taenia* Gmelin Vate (F)
- Arcularia* (*Arcularia*) *callospira* Adams
Reeve, *Nassa*, pl. X, fig. 66; NH 12, New
Hebrides (Mabille)
- Arcularia* (*Pliarcularia*) *globosa* Quoy and
Gaimard Reeve, *Nassa*, pl. X, fig. 62;
NH 1, NH 10, NH 12
- Arcularia* (*Arcularia*) *granifera* Kiener Man.
Conch., (1)4: pl. 8, figs. 39–41; New Heb-
rides (Hedley)
- Arcularia* (*Pliarcularia*) *thersites* Bruguière
Reeve, *Nassa*, pl. X, fig. 65; NH 9
- Hebra muricata* Quoy and Gaimard Reeve,
Nassa, pl. XI, fig. 73; NH 11, New Heb-
rides (Mabille)
- Hebra subspinosa* Lamarck Kiener, *Buccinum*,
pl. 26, fig. 103; ML 28, NH 7, Vate (F)
- Hima* (*Caestia*) *concinna* Powis Vate (F)
- Hima* (*Allanassa*) *eximia* H. Adams Adams
(1872: pl. 3, fig. 28); New Hebrides (type
locality)
- Nassarius* (*Nassarius*) *arcularia* Linné Reeve,
Nassa, pl. IV, fig. 25; NH 5, NH 7, NH 12,
Espiritu Santo (F), Vate (F)

- Nassarius (Phrontis) crassa* Koch Reeve, *Nassa*, pl. X, fig. 67; NH 7, NH 9, NH 12, NH 13, New Hebrides (Mabille)
- Niobia albescens* Dunker Reeve, *Nassa*, pl. XV, fig. 100; NH 7, NH 12, Vate (F, var. *bicolor* Hombron and Jacquinot)
- Niobia gemmulata* Lamarck (= *variiegata* A. Adams) Reeve, *Nassa*, pl. XII, fig. 83; New Hebrides (Mabille)
- Niobia pauperata* Lamarck Philippi, Abbild. Besch. neu. Conch., *Buccinum*, pl. 2, fig. 18; ML 28, Vate (F)

Family FASCIOLARIIDAE

- Fasciolaria coronata* Lamarck Espiritu Santo (F)
- Fasciolaria filamentosa* Röding Hirase and Taki (1951: pl. 99, fig. 12); Tangoa, Espiritu Santo (MCZ)
- Latirus polygonus* Gmelin Hirase and Taki (1951: pl. 100, fig. 1); NH 9, NH 13, Vate (F)
- Leucozonia (Mazzalina) smaragdula* Linné Man. Conch., (1)3: pl. 70, fig. 185; NH 12, NH 13, NH 14, Vate (F)
- Peristernia nassatula* Linné Hirase and Taki (1951: pl. 100, fig. 5); NH 9, NH 11, NH 12, NH 5 contained a form with elongate spire

Family OLIVIDAE

- Oliva (Galeola) carneola* Gmelin Tangoa, Espiritu Santo (MCZ)
- Oliva (Oliva) amethystina* Röding (= *guttata* Lamarck) Man. Conch., (1)5: pl. 19, figs. 64-74; Tangoa, Espiritu Santo (MCZ), New Hebrides (Hedley)
- Oliva (Oliva) irisans* Lamarck Espiritu Santo (F)
- Oliva (Oliva) ispidula* Linné Tangoa, Espiritu Santo (MCZ)
- Oliva (Oliva) maura* Lamarck Espiritu Santo (F)
- Oliva (Oliva) miniacea* Röding (= *erythrostroma* Meuschen) Espiritu Santo (F), Erromanga (Hedley)
- Oliva (Oliva) mustelina* Lamarck NH 10 (juvenile)

- Oliva (Oliva) rubrolabiata* Fischer J. Conchyl., 50: 409-411, pl. 8, figs. 12, 13; Marmaram, Malekula (type locality)
- Oliva (Oliva) reticulata* Röding (= *sanguinolenta* Lamarck) Espiritu Santo (F)
- Oliva (Galeola) tessellata* Lamarck Tangoa, Espiritu Santo (MCZ)
- Oliva (Oliva) tricolor* Lamarck New Hebrides (Mabille)

Family MITRIDAE

- Imbricaria conica* Schumacher Reeve, *Mitra*, pl. XXVII, fig. 216; NH 12
- Imbricaria vanikorensis* Quoy and Gaimard Hirase and Taki (1951: pl. 101, fig. 17); NH 14
- Mitra (Mitra) cardinalis* Gmelin Reeve, *Mitra*, pl. IV, fig. 26; NH 14
- Mitra (Mitra) mitra* Linné (= *episcopalis* Linné) Espiritu Santo (F)
- Mitra (Mitra) papalis* Linné Espiritu Santo (F)
- Mitra (Mitra) stictica* Link (= *pontificalis* Lamarck) Man. Conch., (1)4: pl. 32, fig. 3; Erromanga (Hedley)
- Pterygia dactylus* Linné Hirase and Taki (1951: pl. 101, fig. 16); NH 4
- Pterygia fenestratus* Lamarck Sowerby, Thes. Conch., IV, *Mitra*, fig. 363; New Hebrides (Mabille)
- Pusia muriculatus* Lamarck New Hebrides (Mabille)
- Scabricula (Chrysame) adusta* Lamarck Hirase and Taki (1951: pl. 101, fig. 3); NH 1
- Scabricula (Chrysame) aurantia* Gmelin New Hebrides (Mabille)
- Scabricula (Chrysame) chrysalis* Reeve Hirase and Taki (1951: pl. 101, fig. 2); NH 4, NH 9, NH 13
- Scabricula (Chrysame) tiarella* Adams (= *coronata* Lamarck, non Helbing) Reeve, *Mitra*, pl. XIV, fig. 104; NH 10, Vate (F)
- Scabricula (Chrysame) peregra* Reeve Surendo, Espiritu Santo (F)
- Strigatella (Strigatella) decurtata* Reeve Tangoa, Espiritu Santo (MCZ)

Strigatella (*Strigatella*) *litterata* Lamarck Hirase and Taki (1951: pl. 101, fig. 9); NH 8
Strigatella (*Strigatella*) *paupercula* Linné Reeve, *Mitra*, pl. XII, fig. 84; NH 9

Strigatella (*Strigatella*) *retusa* Lamarck Man. Conch., (1)4: pl. 46, fig. 343; NH 8, Vate (F)

Strigatella (*Strigatella*) *virgata* Lamarck Man. Conch., (1)4: pl. 46, fig. 341; NH 4, NH 8, NH 11

Vexillum (*Costellaria*) *cadaverosum* Reeve Reeve, *Mitra*, pl. XXI, fig. 160; NH 12

Vexillum (*Vexillum*) *gruneri* Reeve New Hebrides (F)

Vexillum (*Vexillum*) *plicarium* Linné Reeve, *Mitra*, pl. VIII, fig. 56; NH 4, New Hebrides (F)

Family VASIDAE

Vasum (*Vasum*) *ceramicum* Linné Vate (F)

Vasum (*Vasum*) *turbinellum* Linné Hirase and Taki (1951: pl. 99, fig. 9); NH 14, Espiritu Santo (F)

Family HARPIDAE

Harpa amouretta Röding (= *minor* Lamarck) Hirase and Taki (1951: pl. 112, fig. 13); NH 14, Espiritu Santo (F)

Harpa ventricosa Lamarck Malekula (F)

Family CYTHARIDAE

Daphnella pupoidea H. Adams Adams (1872: pl. 3, fig. 27); New Hebrides (type locality)

Family TURRIDAE

Ancistrosyrinx (= *Kenyonia*) *pulcherrima* Brazier Brazier (1896: 346); New Hebrides (type locality)

Clavus (*Tyloia*) *unizonalis* Lamarck (= *vidua* Reeve) Martini and Chemnitz, IV(3): pl. 13, fig. 1; NH 4, New Hebrides (Mabille)

Drillia auriculifera Lamarck Vate (F)

Philbertia philippinensis Reeve Reeve, *Pleurotoma*, pl. XIII, figs. 109a, b; NH 1

Philbertia picta rubroguttata H. Adams Adams (1872: pl. 3, fig. 25); New Hebrides (type locality)

Philbertia pulcherrima H. Adams Adams (1872: pl. 3, fig. 26); New Hebrides (type locality)

Turris (*Turris*) *picturata* Weinkauff Martini and Chemnitz, IV(3): pl. 2, fig. 10; NH 13

Family CONIDAE

Conus acbatinus Gmelin Immer (Boettger)

Conus archiepiscopus Bruguière Kiener, *Conus*, pl. 96, figs. 1, 1a; NH 14, Malekula (CNHM)

Conus arenatus Bruguière Kiener, *Conus*, pl. 10, fig. 1; NH 12, Espiritu Santo (F)

Conus auratus Lamarck Man. Conch., (1)6: pl. 31, fig. 30; Erromanga (Hedley)

Conus catus Bruguière Kiener, *Conus*, pl. 43, figs. 1b, 1c (poor); ML 41, NH 14, Vate (F)

Conus ceylonensis var. ML 41 (worn)

Conus ceylonensis nanus Broderip Vate (F)

Conus chaldeus Röding (= *vermiculatus* Lamarck) Sowerby, Thes. Conch., III: pl. 189, fig. 53; ML 41, NH 9

Conus coronatus Gmelin (= *miliaris* Bruguière) Sowerby, Thes. Conch., III: pl. 194, fig. 278; ML 41, NH 4, NH 12, NH 14

Conus ebraeus Linné Hirase and Taki (1951: pl. 113, fig. 12); ML 41, NH 4, NH 5, NH 9, NH 12, Vate (F), Aore (MCZ), Immer (Boettger), Erromanga (Hedley)

Conus eburneus Bruguière Hirase and Taki (1951: pl. 113, fig. 15); NH 4, NH 12

Conus figulinus Linné Vate (F), Espiritu Santo (F)

Conus flavidus Lamarck Kiener, *Conus*, pl. 26, fig. 4; NH 4, NH 14

Conus geographus Linné Man. Conch., (1)6: pl. 28, fig. 84; Erromanga (Hedley)

Conus generalis Linné Kira (1955: pl. 36, fig. 21); Cape Lisburn, Espiritu Santo (H), Espiritu Santo (F)

Conus litteratus Linné Hirase and Taki (1951: pl. 113, fig. 16); NH 4, Cape Lisburn, Espiritu Santo (H), Espiritu Santo (F), Erromanga (Hedley)

Conus lividus Bruguière Kira (1955: pl. 37,

fig. 2); **ML** 41, **NH** 5, Espiritu Santo (**F**), Vate (**F**)

Conus magus decurtatus Dautzenberg (= *adansonii* Sowerby, non Lamarck) Sowerby, Thes. Conch., III: pl. 199, figs. 286-289; **NH** 4, **NH** 9, **NH** 12, **NH** 14

Conus magus striolatus Kiener Kiener, *Conus*, pl. 105, fig. 1; **NH** 13

Conus marmoreus Linné Kira (1955: pl. 36, fig. 6): **NH** 4, **NH** 12, **NH** 14, Espiritu Santo (**F**), Vate (**F**)

Conus miles Linné Vate (**F**)

Conus omaria Bruguière Espiritu Santo (**F**)

Conus pulicarius Bruguière Kira (1955: pl. 36, fig. 15); **NH** 4, **NH** 12, Cape Lisburn, Espiritu Santo (**H**), New Hebrides (**F**)

Conus rattus Bruguière Kiener, *Conus*, pl. 44, fig. 3; **ML** 41, **NH** 8, **NH** 14

Conus senator Linné Vate (**F**)

Conus striatus Linné Kiener, *Conus*, pl. 47, figs. 1, 1a; **NH** 4, Erromanga (**Hedley**)

Conus tessellatus Born Man. Conch., (1)6: pl. 2, figs. 26, 27; New Hebrides (**Hedley**)

Conus textile Linné Aneiteum (Bennett, 1860)

Conus tulipa Linné Kira (1955: pl. 37, fig. 19); Second Channel, Espiritu Santo (**MCZ**), Espiritu Santo (**CNHM**), Erromanga (**Hedley**)

Conus vautieri Kiener Espiritu Santo (**F**)

Family TEREBRIDAE

Terebra chlorata Lamarck Hirase and Taki (1951: pl. 116, fig. 8); **NH** 13

Terebra cingulifera Lamarck Nguna (**F**)

Terebra dimidiata Linné Nguna (**F**), Vate (**F**), Erromanga (**Hedley**), Aneiteum (**Hedley**)

Terebra felina Dillwyn (= *tigrina* Gmelin) Man. Conch., (1)7: pl. 1, fig. 11; New Hebrides (**Hedley**)

Terebra maculata Linné Kira (1955: pl. 38, fig. 21); **NH** 15, Nguna (**F**)

Terebra striata Quoy and Gaimard (= *affinis* Gray) Man. Conch., (1)7: pl. 2, figs. 18, 22; New Hebrides (**Hedley**)

Terebra strigilata Linné Man. Conch., (1)7: pl. 10, figs. 84, 85; Cape Lisburn, Espiritu Santo (**H**)

Terebra subulata Lamarck Vanua Lava (**F**)

DISCUSSION

The 409 species and varieties named above are not presumed to form a complete list of the fauna. The Hadfield collection of shells from Lifu in the Loyalty group contained 860 species, and subsequent research has added many more to that number. There are eight turrids known from the New Hebrides and 196 from New Caledonia. The 22 Mitridae listed here are only a fraction of the 151 reported from New Caledonia, and similar comparisons can be made for nearly every family.

Since I have prepared a similar checklist of the Solomon Islands marine shells (Solem, 1953, 1958), a tabular comparison of the known faunas might be instructive. From Table 1 it can be seen that only a little more than one half of the New Hebridean species have been reported from the Solomons, and that more than one half of the Solomon Islands species are not yet known from the New Hebrides. This is the result of inadequate collecting in both areas and does not indicate any great faunal difference between the two areas. It is quite possible that many Indonesian species reach the Solomons and not the New Hebrides, but almost all of the species listed in these papers are distributed extensively throughout most of the Indo-Pacific region. Their presence in the Solomons and New Hebrides is to be expected, but the scanty literature dealing with the marine

TABLE 1

COMPARISON OF KNOWN MARINE MOLLUSKS OF SOLOMON ISLANDS AND NEW HEBRIDES ISLANDS

GROUP	SPECIES		
	Common to both	In New Hebrides only	In Solomons only
Bivalves	36	61	65
Prosobranchs	183	121	245
Others	4	4	4
Totals	223	186	320

mollusks of Melanesia makes worthwhile the recording of distributional data for even common species. Of the 160 species collected by Kuntz, 89 (55.6 per cent) were previously unreported from the New Hebrides. It is probable that additional collections will contain a similar proportion of previously unrecorded species and that the total number of marine mollusks will be well over 2,000 species.

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